
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2011; month=1; day=20; hr=14; min=16; sec=25; ms=192;]

Reviewer Comments:

<210> 80

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Peptide

The above <223> response for sequence id# 80 is invalid. Please explain the source of genetic material for <213> Artificial Sequence. Please also correct the remaining sequence showing similar errors.

Validated By CRFValidator v 1.0.3

Application No: 10593407 Version No: 2.0

Input Set:

Output Set:

Started: 2010-12-29 17:28:03.071

Finished: 2010-12-29 17:28:06.851

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 780 ms

Total Warnings: 81

Total Errors: 10

No. of SeqIDs Defined: 81

Actual SeqID Count: 81

Error code		Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (1)
W	213	Artificial or Unknown found in <213> in SEQ ID (2)
W	213	Artificial or Unknown found in <213> in SEQ ID (3)
W	213	Artificial or Unknown found in <213> in SEQ ID (4)
W	213	Artificial or Unknown found in <213> in SEQ ID (5)
E	257	Invalid sequence data feature in <221> in SEQ ID (5)
W	213	Artificial or Unknown found in <213> in SEQ ID (6)
E	257	Invalid sequence data feature in <221> in SEQ ID (6)
W	213	Artificial or Unknown found in <213> in SEQ ID (7)
W	213	Artificial or Unknown found in <213> in SEQ ID (8)
W	213	Artificial or Unknown found in <213> in SEQ ID (9)
W	213	Artificial or Unknown found in <213> in SEQ ID (10)
W	213	Artificial or Unknown found in <213> in SEQ ID (11)
W	213	Artificial or Unknown found in <213> in SEQ ID (12)
E	257	Invalid sequence data feature in <221> in SEQ ID (12)
W	213	Artificial or Unknown found in <213> in SEQ ID (13)
E	257	Invalid sequence data feature in <221> in SEQ ID (13)
W	213	Artificial or Unknown found in <213> in SEQ ID (14)
W	213	Artificial or Unknown found in <213> in SEQ ID (15)
W	213	Artificial or Unknown found in <213> in SEQ ID (16)

Input Set:

Output Set:

Started: 2010-12-29 17:28:03.071 **Finished:** 2010-12-29 17:28:06.851

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 780 ms

Total Warnings: 81
Total Errors: 10
No. of SeqIDs Defined: 81

Actual SeqID Count: 81

Error code		Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (17)
W	213	Artificial or Unknown found in <213> in SEQ ID (18)
Ε	257	Invalid sequence data feature in <221> in SEQ ID (18)
W	213	Artificial or Unknown found in <213> in SEQ ID (19)
E	257	Invalid sequence data feature in <221> in SEQ ID (19)
W	213	Artificial or Unknown found in <213> in SEQ ID (20) This error has occured more than 20 times, will not be displayed
E	257	Invalid sequence data feature in <221> in SEQ ID (36)
E	257	Invalid sequence data feature in <221> in SEQ ID (37)
E	257	Invalid sequence data feature in <221> in SEQ ID (42)
E	257	Invalid sequence data feature in <221> in SEQ ID (43)

SEQUENCE LISTING

```
<110> Fairlie, David P
      Shepherd, Nicholas E
<120> ALPHA HELICAL MIMICS, THEIR USES AND METHODS FOR THEIR PRODUCTION
<130> 00704-8018.US00
<140> 10593407
<141> 2010-12-29
<150> PCT/AU2005/000400
<151> 2005-03-21
<150> AU2004901447
<151> 2004-03-19
<160> 81
<170> PatentIn version 3.3
<210> 1
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 1
Lys Xaa Xaa Xaa Asp
<210> 2
<211> 5
<212> PRT
```

<213> Artificial

```
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 2
Asp Xaa Xaa Xaa Lys
<210> 3
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 3
Lys Xaa Xaa Xaa Glu
              5
```

```
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 4
Glu Xaa Xaa Xaa Lys
<210> 5
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MOD_RES
<222> (1)..(1)
<223> Orn
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
```

```
<400> 5
Xaa Xaa Xaa Asp
<210> 6
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<220>
<221> MOD_RES
<222> (5)..(5)
<223> Orn
<400> 6
Asp Xaa Xaa Xaa Xaa
<210> 7
<211> 6
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = any amino acid
```

<220>

```
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa = any amino acid
<400> 7
Xaa Lys Xaa Xaa Xaa Asp
<210> 8
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 8
Lys Ala Arg Ala Asp
<210> 9
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 9
Asp Ala Arg Ala Lys
<210> 10
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 10
```

```
Lys Ala Arg Ala Glu
<210> 11
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 11
Glu Ala Arg Ala Lys
<210> 12
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MOD_RES
<222> (1)..(1)
<223> Orn
<400> 12
Xaa Ala Arg Ala Asp
<210> 13
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MOD_RES
<222> (5)..(5)
<223> Orn
<400> 13
Asp Ala Arg Ala Xaa
```

```
<210> 14
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 14
Lys Ala Arg Ala Asp
<210> 15
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 15
Lys Leu Leu Asp
<210> 16
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 16
Lys Leu Ala Leu Asp
<210> 17
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 17
Lys Leu Phe Ala Asp
```

```
<210> 18
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MOD_RES
<222> (1)..(1)
<223> Orn
<400> 18
Xaa Ala Arg Ala Glu
<210> 19
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MOD_RES
<222> (5)..(5)
<223> Orn
<400> 19
Glu Ala Arg Ala Xaa
<210> 20
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 20
Lys Ala Arg Ala Asp
<210> 21
```

<211> 5

```
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 21
Lys Ala Arg Ala Asp
<210> 22
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 22
Lys Ala Arg Ala Asp
<210> 23
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 23
Lys Ala Ala Ala Asp
<210> 24
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 24
Lys Ala Leu Ala Asp
<210> 25
<211> 5
```

<212> PRT

```
<213> Artificial
<220>
<223> Cyclic peptide
<400> 25
Lys Ala Met Ala Asp
<210> 26
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 26
Lys Ala Gln Ala Asp
<210> 27
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 27
Lys Ala Phe Ala Asp
<210> 28
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 28
Lys Ala Gly Ala Asp
<210> 29
<211> 5
<212> PRT
<213> Artificial
```

```
<220>
<223> Cyclic peptide
<400> 29
Lys Gly Ser Ala Asp
<210> 30
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 30
Lys Ser Ser Ser Asp
<210> 31
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 31
Lys Gly Gly Asp
<210> 32
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
```

```
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 32
Lys Xaa Xaa Xaa Asp
<210> 33
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 33
Asp Xaa Xaa Xaa Lys
<210> 34
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
```

```
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 34
Lys Xaa Xaa Xaa Glu
<210> 35
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 35
Glu Xaa Xaa Xaa Lys
<210> 36
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MOD_RES
<222> (1)..(1)
<223> Orn
```

```
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<400> 36
Xaa Xaa Xaa Asp
<210> 37
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<220>
<221> MOD_RES
<222> (5)..(5)
<223> Orn
<400> 37
Asp Xaa Xaa Xaa
```

<210> 38 <211> 5 <212> PRT <213> Artificial <220> <223> Cyclic peptide <400> 38 Lys Ala Arg Ala Asp <210> 39 <211> 5 <212> PRT <213> Artificial <220> <223> Cyclic peptide <400> 39 Asp Ala Arg Ala Lys <210> 40 <211> 5 <212> PRT <213> Artificial <220> <223> Cyclic peptide <400> 40 Lys Ala Arg Ala Glu <210> 41 <211> 5 <212> PRT <213> Artificial <220> <223> Cyclic peptide <400> 41

Glu Ala Arg Ala Lys

```
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MOD_RES
<222> (1)..(1)
<223> Orn
<400> 42
Xaa Ala Arg Ala Asp
<210> 43
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MOD_RES
<222> (5)..(5)
<223> Orn
<400> 43
Asp Ala Arg Ala Xaa
<210> 44
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 44
Lys Ala Ala Ala Asp
<210> 45
<211> 5
<212> PRT
```

<213> Artificial

```
<220>
<223> Cyclic peptide
<400> 45
Lys Gly Ser Ala Asp
<210> 46
<211> 10
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 46
Lys Ala Arg Ala Asp Lys Ala Arg Ala Asp
             5
<210> 47
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 47
Lys Ala Arg Ala Asp Lys Ala Arg Ala Asp Lys Ala Arg Ala Asp
1 5
                   10
<210> 48
<211> 17
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 48
Phe Gly Gly Phe Thr Gly Ala Arg Lys Ser Ala Arg Lys Leu Ala Asn
                               10
```

Gln

```
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 49
Phe Gly Phe Thr Lys Ala Arg Lys Asp Lys Arg Lys Leu Asp
              5
                                 10
<210> 50
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 50
Gly Gly Gly Phe Thr Lys Ala Arg Lys Asp Lys Arg Lys Leu Asp
<210> 51
<211> 10
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 51
Lys Ala Arg Lys Asp Lys Arg Lys Leu Asp
<210> 52
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 52
Lys Ala Arg Ala Asp
<210> 53
```

<211> 14

<211> 5

```
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 53
Lys Ala Arg Ala Asp
<210> 54
<211> 10
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 54
Lys Ala Arg Ala Asp Lys Ala Arg Ala Asp
<210> 55
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 55
Lys Ala Arg Ala Asp Lys Ala Arg Ala Asp Lys Ala Arg Ala Asp
      5
                                 10
<210> 56
<211> 12
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X = hydrophobic amino acid
<220>
<221> MISC_FEATURE
<222> (2)..(2)
```

```
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = hydrophobic amino acid
<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X = hydrophobic amino acid
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X = negatively charged amino acid
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa = any amino acid
<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> X = hydrophobic amino acid
<400> 56
5
                               10
```

```
<210> 57
<211> 12
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 57
Tyr Lys Arg Glu Leu Asp Lys Met Ala Asp Asp Phe
   5
<210> 58
<211> 12
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 58
Val Lys Arg Gln Leu Asp Lys Ile Ala Asp Asp Ile
             5
<210> 59
<211> 11
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 59
Lys Ala Gln Glu Asp Lys Val Ala Asp Asp Met
1 5
<210> 60
<211> 11
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 60
Lys Ala Gln Glu Asp Lys Ile Ala Asp Asp Phe
              5
                                10
```

```
<211> 10
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 61
Lys Arg Glu Leu Asp Lys Met Ala Asp Asp
     5
<210> 62
<211> 10
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 62
Lys Arg Gln Leu Asp Lys Ile Ala Asp Asp
   5
<210> 63
<211> 10
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 63
Lys Ala Gln Glu Asp Lys Val Ala Asp Asp
<210> 64
<211> 10
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 64
Lys Ala Gln Glu Asp Lys Ile Ala Asp Asp
             5
```

<210> 61

```
<211> 8
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 65
Leu Arg Lys Met Ala Asp Asp Phe
<210> 66
<211> 8
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 66
Leu Ala Lys Ile Ala Asp Asp Ile
<210> 67
<211> 8
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 67
Leu Ala Lys Val Ala Asp Asp Ile
<210> 68
<211> 8
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 68
Leu Ala Lys Ile Ala Asp Asp Phe
<210> 69
```

<211> 5

```
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 69
Lys Met Ala Asp Asp
<210> 70
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 70
Lys Ile Ala Asp Asp
<210> 71
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 71
Lys Val Ala Asp Asp
<210> 72
<211> 5
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 72
Lys Met Ala Asp Asp
<210> 73
<211> 6
<212> PRT
```

```
<213> Artificial
<220>
<223> Cyclic peptide
<400> 73
Phe Met Lys Glu Asp Leu
<210> 74
<211> 4
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 74
Met Lys Glu Asp
<210> 75
<211> 3
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 75
Lys Glu Asp
<210> 76
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 76
Phe Gly Gly Phe Thr Lys Ala Arg Lys Asp Lys Arg Lys Leu Asp
                  10
<210> 77
<211> 15
<212> PRT
<213> Artificial
```

```
<220>
<223> Cyclic peptide
<220>
<221> MISC_FEATURE
<222> (1)..(1)
\langle 223 \rangle X = Nphe
<400> 77
Xaa Gly Gly Phe Thr Lys Ala Arg Lys Asp Lys Arg Lys Leu Asp
                                10
<210> 78
<211> 11
<212> PRT
<213> Artificial
<220>
<223> Cyclic peptide
<400> 78
Thr Lys Ala Arg Lys Asp Lys Arg Lys Leu Asp
                     10
   5
<210> 79
<211> 10
<212> PRT
<213> Ar
```